FIG. 1

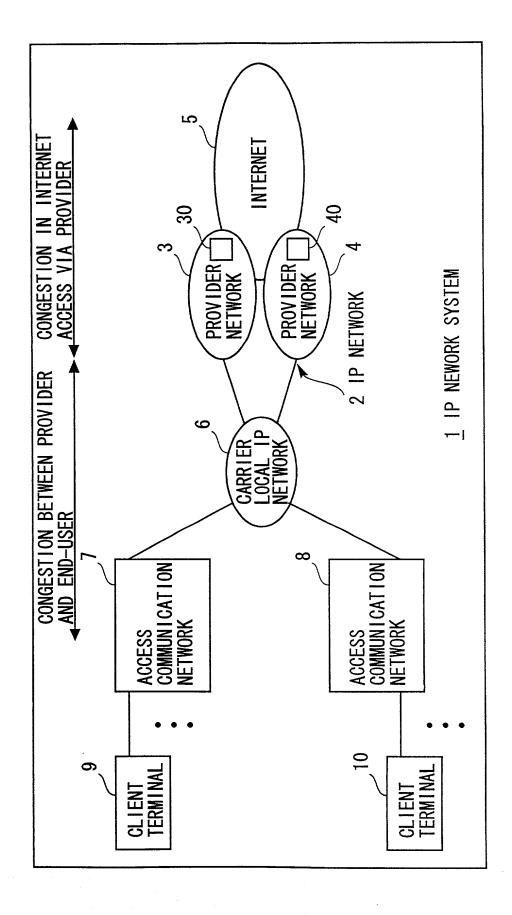
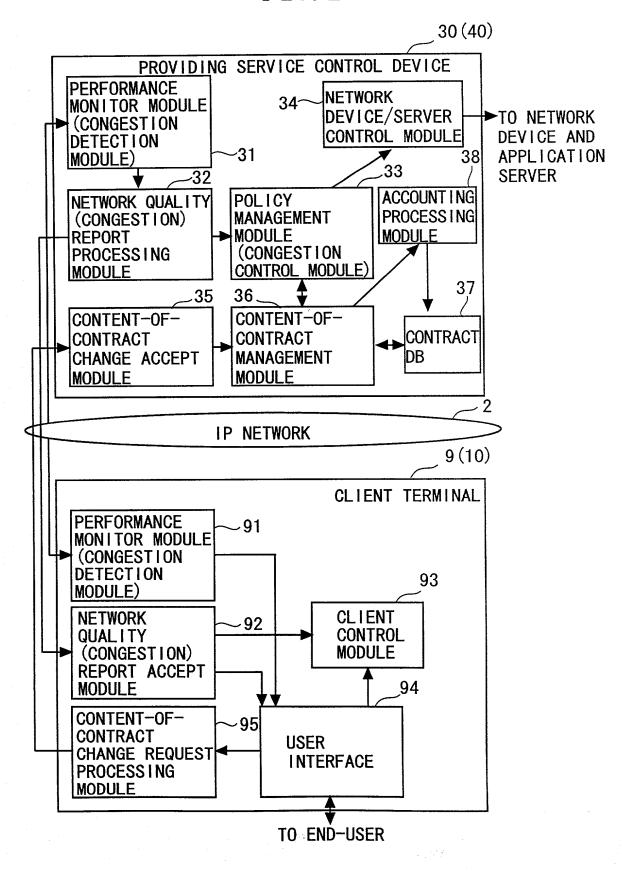


FIG. 2



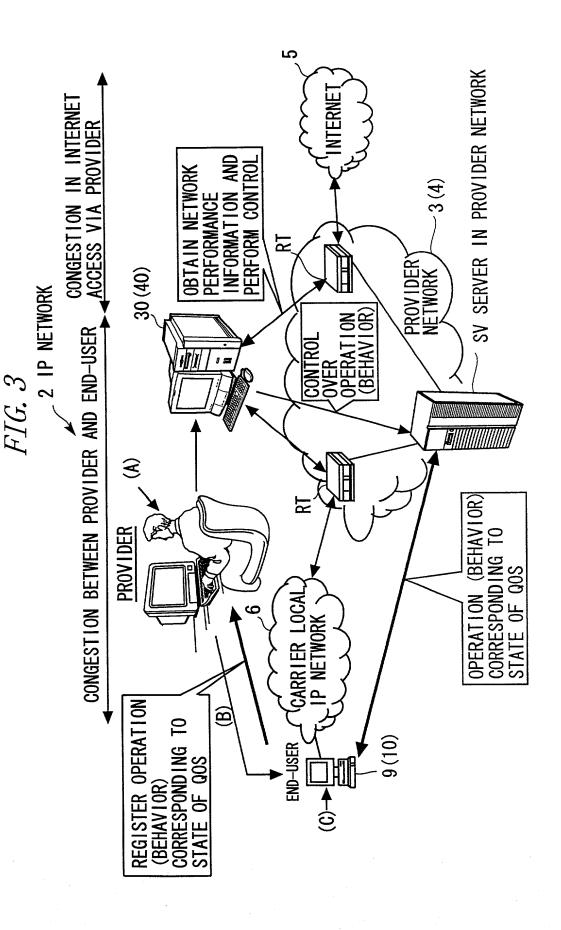


FIG. 4

37 CONTRACT DB	CONTENT FILE NAME	FILE-A	FILE-B	FILE-C
	CONTENT SIZE	132K	¥09	У6
	FEE	A	A*0.5	A*0.2
	CONGESTION CONDITION FEE CONTENT SIZE CONTENT FILE NAME	%0	20%	80%
	JSER ID SERVICE LEVEL	FULL	MIDDLE	FOW
	USER ID	(AWAMURA		

THE PERFORMANCE MONITOR MODULE 31 MONITORS THE STATE OF QOS OF THE IP NETWORK 2, AND COLLECTS PERFORMANCE INFORMATION OBTAINED FROM THE IP NETWORK 2

S62

THE NETWORK QUALITY REPORT PROCESSING MODULE 32 REARRANGES THE PERFORMANCE INFORMATION INTO A NETWORK QUALITY STATE REPORT

S63

THE NETWORK QUALITY REPORT PROCESSING MODULE 32 NOTIFIES THE CLIENT TERMINAL 9 OF THIS REPORT

S64

THE NETWORK QUALITY REPORT PROCESSING MODULE 32 NOTIFIES THE POLICY MANAGEMENT MODULE 33 OF THIS REPORT

S65

THE CONTENT-OF-CONTRACT MANAGEMENT MODULE 36 CONFIRMS THE CONTENT OF CONTRACT WITH THE END-USER USING THE CLIENT TERMINAL 9 BY REFERRING TO THE CONTRACT DATABASE 37

S66

THE POLICY MANAGEMENT MODULE 33 JUDGES WHICH SERVICE LEVEL THE SERVICE SHOULD BE CHANGED CORRESPONDE TO THE STATE OF TRAFFIC CONGESTION

S67

THE POLICY MANAGEMENT MODULE 33 NOTIFIES THE CONTENT-OF-CONTRACT MANAGEMENT MODULE 36 OF THIS JUDGEMENT TO HAVE THE CONTENT OF THE CONTRACT CHANGED

S68

THE CONTENT-OF-CONTRACT MANAGEMENT MODULE 36 SENDS THE CHANGE IN THE CONTENT OF CONTRACT TO THE ACCOUNTING PROCESSING MODULE 38, AND THE ACCOUNTING DATA IS CHANGED IF THERE IS CHANGE IN SERVICE UTILITY FEE

S69

THE NETWORK DEVICE/SERVER CONTROL MODULE 34 CONTROLS
THE NETWORK DEVICE OR APPLICATION SERVER TO PROVIDE THE
CLIENT TERMINAL 9 WITH A SERVICE CORRESPONDING TO THE
CONTENT OF CONTRACT

S71

THE POLICY MANAGEMENT MODULE 33 INQUIRES OF THE CONTENT-OF-CONTRACT MANAGEMENT MODULE 36 ABOUT THE CONTENT OF CONTRACT WITH THE END-USER

√S72

THE CONTENT-OF-CONTRACT MANAGEMENT MODULE 36 OBTAINS THE CONTENT OF CONTRACT WITH THE END-USER FROM THE CONTRACT DATABASE 37, AND NOTIFIES THE POLICY MANAGEMENT MODULE 33 OF THIS CONTENT

S73

THE POLICY MANAGEMENT MODULE 33, BASED ON THE CONTENT OF CONTRACT, REQUESTS THE NETWORK DEVICE/SERVER CONTROL MODULE 34 TO CHANGE A SIZE (QUANTITY) AND A QUALITY OF THE DATA TO BE TRANSMITTED TO THE CLIENT TERMINAL 9 AND TO TRANSMIT, AFTER SELECTING A CONTENT TRANSFERABLE CORRESPONDING TO THE QOS STATE OF THE IP NETWORK 2 FROM CONTENTS HAVING DIFFERENT DATA SIZES AND QUALITIES THAT HAVE BEEN PREVIOUSLY REGISTERED IN THE APPLICATION SERVER BY THE CONTENT PROVIDER, THIS SELECTED CONTENT TO THE CLIENT TERMINAL 9

S74

THE CONTENT-OF-CONTRACT MANAGEMNT MODULE 36 REQUESTS
THE ACCOUNTING PROCESSING MODULE 38 TO SET (CHANGE) OF
ACCOUNTING DATA CORESPONDING TO DETAILS OF A
TRANSMISSION TARGET CONTENT IN RESPONSE TO REQUEST FROM
THE POLICY MANAGEMENT MODULE 33

S75

THE CLIENT TERMINAL RECEIVES A DISTRIBUTION OF THE CONTENT FROM THE APPLICATION SERVER CONTROLLED BY THE NETWORK DEVICE/SERVER CONTROL MODULE 34

S81

THE POLICY MANAGEMENT MODULE 33 INQUIRES OF THE CONTENT-OF-CONTRACT MANAGEMENT MODULE 36 ABOUT THE CONTENT OF CONTRACT WITH THE END-USER

S82

THE CONTENT-OF-CONTRACT MANAGEMENT MODULE 36 OBTAINS THE CONTENT OF CONTRACT WITH THE END-USER FROM THE CONTRACT DATABASE 37, AND NOTIFIES THE POLICY MANAGEMENT MODULE 33 OF THIS CONTENT

S83

THE POLICY MANAGEMENT MODULE 33 REQUESTS THE NETWORK DEVICE/SERVER CONTROL MODULE 34 TO CHANGE AND SET BANDS (TRANSMISSION BANDS) OF THE ACCESS LINE BETWEEN THE CLIENT TERMINAL 9 AND THE APPLICATION SERVER AND OF THE LINE USED WHEN THE END-USER ACCESSES THE INTERNET 5 VIA THE CLIENT TERMINAL 9

S84

THE CONTENT-OF-CONTRACT MANAGEMENT MODULE 36 REQUESTS THE ACCOUNTING PROCESSING MODULE 38 TO SET (CHANGE) THE ACCOUNTING DATA CORRESPONDING TO THE SET BAND IN RESPONSE TO A REQUEST FROM THE POLICY MANAGEMENT MODULE 33

S85

THE APPLICATION SERVER DISTRIBUTES THE CONTENT IN THE CHANGED BAND TO THE CLIENT TERMINAL 9

S91 THE PERFORMANCE MONITOR MODULE 31 MONITORS THE PERFORMANCE (STATE OF QOS) OF THE IP NETWORK 2 S92 THE NETWORK QUALITY REPORT PROCESSING MODULE 32 CREATES A NETWORK QUALITY STATE REPORT ON THE BASIS OF THIS MONITORED RESULT S93 THE NETWORK QUALITY REPORT PROCESSING MODULE 32 NOTIFIES THE CLIENT TERMINAL 9 OF THE REPORT **S94** THE NETWORK QUALITY REPORT ACCEPT MODULE 92 RECEIVES THE NETWORK QUALITY STATE REPORT TRANSMITTED FROM THE NETWORK QUALITY REPORT PROCESSING MODULE 32 **S95** THE NETWORK QUALITY REPORT ACCEPT MODULE 92 DISPLAYS THIS REPORT ON THE DISPLAY SCREEN VIA THE USER INTERFACE 94

S101 THE NETWORK QUALITY REPORT ACCEPT MODULE 92 RECEIVES THE NETWORK QUALITY STATE REPORT TRANSMITTED FROM THE NETWORK QUALITY REPORT PROCESSING MODULE 32 S102ء THE NETWORK QUALITY REPORT ACCEPT MODULE 92 DISPLAYS THIS REPORT ON THE DISPLAY SCREEN VIA THE USER INTERFACE 94 √S103 THE END-USER CAN INPUT CHANGE DATA OF THE CONTENT OF CONTRACT VIA THE USER INTERFACE 94 TO CHANGE THE CONTRACT DATA MANAGED IN THE PROVIDING SERVICE CONTROL DEVICE 30 S104 THE CONTENT-OF-CONTRACT CHANGE REQUEST PROCESSING MODULE 95 NOTIFES THE PROVIDING SERVICE CONTROL DEVICE 30 OF THE CHANGE DATA OF THE CONTENT OF CONTRACT AS A CHANGE REPORT THAT HAS BEEN INPUTTED VIA THE USER INTERFACE 94 S105 THE CONTENT-OF-CONTRACT CHANGE ACCEPT MODULE 35 RECEIVES THE CHANGE DATA AS THE CHANGE REPORT FROM THE CONTENT-OF-CONTRACT CHANGE REQUEST PROCESSING MODULE 95 AND NOTIFIES THE CONTENT-OF-CONTRACT MANAGEMENT MODULE 36 OF THE CHANGE DATA .S106 THE CONTENT-OF-CONTRACT MANAGEMENT MODULE 36 PROCESSES THE CHANGE DATA OF THE CONTENT OF CONTRACT S107 THE CONTENT-OF-CONTRACT MANAGEMENT MODULE 36 CHANGES THE CONTRACT DATA OF THE CORRESPONDING END-USER THAT ARE STROED IN THE CONTRACT DATABASE 37 THE CONTENT-OF-CONTRACT MANAGEMENT MODULE 36 NOTIFIES THE POLICY MANAGEMENT MODULE 33 OF THE CHANGE IN THE CONTENT OF CONTRACT S109 THE POLICY MANAGEMENT MODULE 33 REQUESTS THE NETWORK DEVICE/SERVER CONTROL MODULE 34 TO CONTROL THE NETWORK DEVICE OR THE SERVER TO PROVIDE THE SERVICE CORRESPONDING TO THE CHANGE IN THE CONTENT OF CONTRACT

	\$111			
THE PERFORMANCE MONITOR MODULE 91 MONITORS A PERFORMANCE OF THE IP NETWORK AS VIEWED FROM THE END-USER AND A				
PERFORMANCE OF THE CLIENT T				
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	DDULE 91 DISPLAYS THE NETWORK A STATE OF CONGESTION OF THE ON THE DISPLAY SCREEN VIA			
	\$113			
OF CONTRACT VIA THE USER I	CHANGE DATA OF THE CONTENT NTERFACE 94 TO CHANGE THE THE PROVIDING SERVICE CONTROL			
	\$114			
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	S115			
THE CONTENT-OF-CONTRACT CH RECEIVES THE CHANGE DATA A THE CONTENT-OF-CONTRACT CH MODULE 95 AND NOTIFIES TH MANAGEMENT MODULE 36 OF TH	S THE CHANGE REPORT FROM IANGE REQUEST PROCESSING IE CONTENT-OF-CONTRACT			
	S116			
THE CONTENT-OF-CONTRACT MA THE CHANGE DATA	NAGEMENT MODULE 36 PROCESSES			
	S117 S			
THE CONTENT-OF-CONTRACT MA THE CONTRACT DATA OF THE C ARE STROED IN THE CONTRACT	NAGEMENT MODULE 36 CHANGES ORRESPONDING END-USER THAT DATABASE 37			
	\$118			
THE CONTENT-OF-CONTRACT MAN THE POLICY MANAGEMENT MODUL CONTENT OF CONTRACT	NAGEMENT MODULE 36 NOTIFIES LE 33 OF THE CHANGE IN THE			
	S119			
THE POLICY MANAGEMENT MODUL DEVICE/SERVER CONTROL MODUL NETWORK DEVICE OR THE SERVE CORRESPONDING TO THE CHANGE	_E 34 TO CONTROL THE			

S121 THE PERFORMANCE MONITOR MODULE 91 MONITORS A PERFORMANCE OF THE IP NETWORK AS VIEWED FROM THE END-USER AND A PERFORMANCE OF THE CLIENT TERMINAL 9 ITSELF THE PERFORMANCE MONITOR MODULE 91 DISPLAYS THE NETWORK QAUALITY STATE REPORT AND A STATE OF CONGESTION OF THE CLIENT TERMINAL 9 ITSELF ON THE DISPLAY SCREEN VIA THE **USER INTERFACE 94 S123** THE CLIENT CONTROL MODULE 93 PERFORMS OF SERVICE CONTROL FOR THE CLIENT TERMINAL 9 ITSELF ON THE BASIS OF THE REPORT OR THE PERFORMANCE INFORMATION OF THE CLIENT TERMINAL 9 ITSELF S124 THE PERFORMANCE MONITOR MODULE 31 MONITORS THE PERFORMANCE OF THE IP NETWORK 2 S125 THE NETWORK QUALITY REPORT PROCESSING MODULE 32 CREATES THE NETWORK QUALITY STATE REPORT ON THE BASIS OF THE MONITORED RESULT AND NOTIFIES THE CLIENT TERMINAL 9 OF THIS REPORT S126 THE NETWORK QUALITY REPORT ACCEPT MODULE 92 RECEIVES THE NETWORK QUALITY STATE REPORT TRANSMITTED FROM THE NETWORK QUALITY REPORT PROCESSING MODULE 32 THE NETWORK QUALITY REPORT ACCEPT MODULE 92 DISPLAYS THE REPORT ON THE DISPLAY SCREEN VIA THE USER INTERFACE 94 AND NOTIFIES THE CLIENT CONTROL MODULE 93 OF THIS REPORT S128 THE CLIENT CONTROL MODULE 93 PERFORMS THE SERVICE CONTROL FOR THE CLIENT TERMINAL 9 ITSELF ON THE BASIS OF THE PERFORMANCE INFORMATION OF THE NETWORK QUALITY STATE REPORT